

Appl. No. 10/708,155
 Amtd. dated February 22, 2005
 Reply to Office action of January 25, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

- 1 (original): A light source comprising:
 - 5 a prism having a plurality of optical planes for redirecting light; and
 - a plurality of beam generators for generating light beams and projecting the light
 - beams to the optical planes;
 - wherein the optical planes redirect the light beams to collect the light beams to form
 - an enhanced light beam.
- 10 2 (original): The light source of claim 1 wherein the optical planes reflect
- the light beams to form the enhanced light beam.
- 15 3 (original): The light source of claim 2 wherein total reflection of the light
- beams occurs at the optical planes, the light beams being collected to
- form the enhanced light beam after the total reflections.
- 20 4 (original): The light source of claim 3 wherein the light beams enter the
- prism with a first refraction, and then leave the prism with a second
- refraction after the total reflection in the prism.
- 25 5 (original): The light source of claim 3 wherein each of the beam
- generators corresponds to one of the optical planes, and each of the
- light beams is totally reflected at the corresponding optical plane.
- 6 (original): The light source of claim 5 comprising two of the beam
- generators and the prism comprising three of the optical planes: a first

Appl. No. 10/708,155
Amdt. dated February 22, 2005
Reply to Office action of January 25, 2005

optical plane, a second optical plane, and a third optical plane;
wherein the light beams generated by the two beam generators are
respectively totally reflected at the first optical plane and the second
optical plane, and then leave the prism through the third optical plane.

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7 (withdrawn): The light source of claim 5 comprising three of the beam
generators and the prism comprising four of the optical planes: a first
optical plane, a second optical plane, a third optical plane, and a
fourth optical plane; wherein the light beams generated by the three
beam generators are respectively totally reflected at the first optical
plane, the second optical plane, and the third optical plane, and then
leave the prism through the fourth optical plane.

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8 (withdrawn): The light source of claim 5 comprising four of the beam
generators and the prism comprising five of the optical planes: a first
optical plane, a second optical plane, a third optical plane, a fourth
optical plane, and a fifth optical plane; wherein the light beams
generated by the four beam generators are respectively totally
reflected at the first optical plane, the second optical plane, the third
optical plane, and the fourth optical plane, and then leave the prism
through the fifth optical plane.

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9 (withdrawn): The light source of claim 2 wherein the prism is placed in
a rotatable manner and further comprises:
a plurality of first reflective filtering areas for filtering and reflecting
light, where the light beams are filtered and reflected by the first
reflective filtering areas when the prism rotates to a first angle;
a plurality of second reflective filtering areas for filtering and

25

Appl. No. 10/708,155
Amdt. dated February 22, 2005
Reply to Office action of January 25, 2005

- reflecting light, where the light beams are filtered and reflected by the second reflective filtering areas when the prism rotates to a second angle; and
- 5 a plurality of third reflective filtering areas for filtering and reflecting light, where the light beams are filtered and reflected by the third reflective filtering areas when the prism rotates to a third angle.
- 10 (withdrawn): The light source of claim 2 wherein each of the beam generators corresponds to one of the optical planes, and each of the light beams is reflected at the corresponding optical plane.
- 15 11 (withdrawn): The light source of claim 10 comprising three of the beam generators and the prism comprising three of the optical planes, wherein the light beams generated by the three beam generators are reflected at the corresponding optical planes and then collected to form the enhanced light beam.
- 20 12 (withdrawn): The light source of claim 10 comprising four of the beam generators and the prism comprising four of the optical planes, wherein the light beams generated by the four beam generators are reflected at the corresponding optical planes and then collected to form the enhanced light beam.
- 25 13 (original): The light source of claim 1 being installed in a projector and being used to provide light to the projector, wherein the projector comprises:
a light pipe for uniformizing light received from the light source; and
an image device for processing the uniformized light from the light

Appl. No. 10/708,155
Amdt. dated February 22, 2005
Reply to Office action of January 25, 2005

pipe and for projecting the processed light to form an image,
wherein the light pipe is positioned between the prism and the
image device.

5 14 (original): The light source of claim 13 wherein the projector further
comprises a color wheel located between the prism and the light pipe
for filtering the enhanced light beam so as to output beams with
different colors by turning.

10 15 (original): The light source of claim 1 wherein each of the beam
generators comprises:
a light device for radiating light; and
a light collector for collecting the light radiated from the light device
to form the light beam.

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16 (currently amended): A projector comprising:

a light source having a prism and a plurality of beam generators, wherein the prism
having a plurality of optical planes, the plurality of beam generators being used
for generating light beams and projecting the light beams to the optical planes,
20 the optical planes redirecting the light beams to collect the light beams to form
an enhanced light beam;
a light pipe for uniformizing the enhanced light beam received from the light source;
and
an image device for processing the uniformized light from the light pipe and for
25 projecting the processed light to form an image;
wherein the light pipe is positioned between the prism and the image device.

17 (original): The projector of claim 16 further comprising a color wheel

Appl. No. 10/708,155
Amdt. dated February 22, 2005
Reply to Office action of January 25, 2005

located between the prism and the light pipe for filtering the enhanced light beam so as to output beams with different colors by turning.

18 (original): The projector of claim 16 wherein the optical planes
5 reflect the light beams to form the enhanced light beam.

19 (original): The projector of claim 18 wherein total reflection of the light beams occurs at the optical planes, the light beams being collected to form the enhanced light beam after the total reflections.

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20 (withdrawn): The projector of claim 18 wherein the prism is placed in a rotatable manner and further comprises:

a plurality of first reflective filtering areas for filtering and reflecting light, where the light beams are filtered and reflected by the first
15 reflective filtering areas when the prism rotates to a first angle;

a plurality of second reflective filtering areas for filtering and reflecting light, where the light beams are filtered and reflected by the second reflective filtering areas when the prism rotates to a second angle; and

20 a plurality of third reflective filtering areas for filtering and reflecting light, where the light beams are filtered and reflected by the third reflective filtering areas when the prism rotates to a third angle.